

AMENDMENT(S) TO THE CLAIMS

1
2
3 1. (currently amended) A method comprising:
4 establishing an instantaneous network between a first mobile device and a
5 second mobile device, each mobile device having ad hoc networking capability;
6 sending first information in a nodal tree structure from the first mobile
7 device to the second mobile device automatically, the first information including
8 at least information received by the first mobile device from one or more third
9 devices other than the first mobile device and the second mobile device during at
10 least one instantaneous network previously established between the first mobile
11 device and the one or more third devices; and,
12 storing the first information at the second mobile device in a second tree
13 data structure;
14 wherein the first mobile device is not part of the at least one instantaneous
15 network previously established between the first mobile device and the one or
16 more third devices during the establishing and the sending; and
17 wherein the second tree data structure has multiple nodes such that a
18 number of levels in the second tree data structure between two nodes of the
19 multiple nodes indicates a degree of separation between two devices that are
20 represented by the two nodes.
21

22 2. (original) The method of claim 1, wherein the instantaneous network
23 between the first mobile device and the second mobile device is a piconet.
24
25

1 3. (currently amended) The method of claim 1, further comprising:

2 sending second information in a nodal tree structure from the second
3 mobile device to the first mobile device automatically, the second information
4 including at least information received by the second mobile device from one or
5 more fourth devices other than the first mobile device and the second mobile
6 device during at least one instantaneous network previously established between
7 the second mobile device and the one or more fourth devices; and,

8 storing the second information at the first mobile device in a first tree data
9 structure in which the first information has already been stored.

10
11 4. (previously presented) The method of claim 3, wherein the first
12 information is stored at the second mobile device in the second tree data structure
13 in which the second information has already been stored.

1 5. (currently amended) A method comprising:

2 establishing an instantaneous network between a first mobile device and a
3 second mobile device, each mobile device having ad hoc networking capability;

4 sending first information from the first mobile device to the second mobile
5 device automatically, the first information including at least information received
6 by the first mobile device from one or more third devices other than the first
7 mobile device and the second mobile device during at least one instantaneous
8 network previously established between the first mobile device and the one or
9 more third devices; and,

10 storing the first information at the second mobile device in a second tree
11 data structure;

12 wherein the first mobile device is not part of the at least one instantaneous
13 network previously established between the first mobile device and the one or
14 more third devices during the establishing and the sending first information;

15 further comprising:

16 sending second information from the second mobile device to the first
17 mobile device, the second information including at least information received by
18 the second mobile device from one or more fourth devices other than the first
19 mobile device and the second mobile device during at least one instantaneous
20 network previously established between the second mobile device and the one or
21 more fourth devices; and,

22 storing the second information at the first mobile device in a first tree data
23 structure in which the first information has already been stored
24
25

1 wherein the first information is stored at the second mobile device in the
2 second tree data structure in which the second information has already been
3 stored; and

4 ~~The method of claim 4,~~

5 wherein each of the first tree data structure at the first mobile device and
6 the second tree data structure at the second mobile device indicate how many
7 degrees of separation there are between given nodes stored in the first and second
8 tree data structures and nodes representing the first and second mobile devices,
9 respectively.

10
11 6. (previously presented) The method of claim 1, wherein the first
12 information includes identity information regarding each of the one or more third
13 devices and identity information regarding the first mobile device.

14
15 7. (original) The method of claim 1, wherein the first information includes
16 one or more of: advertising information and dating information.

17
18 8. (canceled)

19
20 9. (currently amended) The method of claim-8 1, wherein each node of the
21 nodal tree structure of the first information contains an associated decay value,
22 such that information contained in the node decays over time and the node is
23 deleted upon expiration.

1 **10.** (previously presented) The method of claim 9, wherein storing the first
2 information at the second mobile device comprises copying each node of the first
3 information into the second tree data structure, including the associated decay
4 value contained in the node.

5
6 **11.** (previously presented) The method of claim 9, wherein storing the first
7 information at the second mobile device comprises copying each node of the first
8 information into the second tree data structure, and updating the associated decay
9 value contained in the node.

10
11 **12.** (previously presented) The method of claim 1, wherein at least one of
12 the one or more third devices is a mobile device.

13
14 **13.** (previously presented) The method of claim 1, wherein at least one of
15 the one or more third devices is a stationary device.

16
17 **14.** (original) The method of claim 1, wherein the first information decays
18 over time, such that the first information is deleted upon expiration.

19
20 **15.** (original) The method of claim 1, wherein the first information is
21 formatted according to a markup language.

1 16. (currently amended) A computer-readable medium having instructions
2 stored thereon for execution by a processor of a first device having ad hoc
3 networking capability to perform a method comprising:

4 establishing an instantaneous network with a second device having ad hoc
5 networking capability;

6 exchanging configuration information with the second device, each of the
7 first device and the second device having a current configuration selected from at
8 least a send-only configuration and a send-and-receive configuration;

9 in response to determining that the current configuration of the second
10 device is the send-and-receive configuration, automatically

11 sending first information in a nodal tree structure to the second
12 device, the first information including at least information received by the
13 first device from one or more third devices other than the first device and
14 the second device during at least one instantaneous network previously
15 established between the first device and the one or more third devices; and,

16 in response to determining that the current configuration of the first device
17 is the send-and-receive configuration, automatically

18 receiving second information in a nodal tree structure from the
19 second device;

20 storing the second information in a first tree data structure;

21 wherein the first device is not part of the at least one instantaneous network
22 previously established between the first device and the one or more third devices
23 during the establishing, the exchanging, and the sending; and

1 wherein the first tree data structure has multiple nodes such that a number
2 of levels in the first tree data structure between two nodes of the multiple nodes
3 indicates a degree of separation between two devices that are represented by the
4 two nodes.

5
6 17. (original) The computer-readable medium of claim 16, wherein the
7 instantaneous network established with the second device is a piconet.

8
9 18. (previously presented) The computer-readable medium of claim 16,
10 wherein the second information includes at least information received by the
11 second device from one or more fourth devices other than the first device and the
12 second device during at least one instantaneous network previously established
13 between the second device and the one or more fourth devices.

14
15 19. (previously presented) The computer-readable medium of claim 16,
16 wherein the first information has already been stored in the first tree data structure.

17
18 20. (canceled)

19
20 21. (currently amended) The computer-readable medium of claim-~~20~~ 16,
21 wherein each node of the nodal tree structures of the first information and the
22 second information contains an associated decay value, such that information
23 contained in the node decays over time and the node is deleted upon expiration.

1 **22.** (previously presented) The computer-readable medium of claim 21,
2 wherein storing the second information in the first tree data structure comprises
3 copying each node of the second information into the first tree data structure,
4 including the associated decay value contained in each node.

5
6 **23.** (previously presented) The computer-readable medium of claim 21,
7 wherein storing the second information in the first tree data structure comprises
8 copying each node of the second information into the first tree data structure, and
9 updating the associated decay value contained in each node.

10
11 **24.** (original) The computer-readable medium of claim 16, wherein at least
12 one of the first device and the second device is a mobile device.

13
14 **25.** (original) The computer-readable medium of claim 16, wherein at least
15 one of the first device and the second device is a stationary device.

16
17 **26.** (original) The computer-readable medium of claim 16, wherein the
18 first device has Bluetooth communication capability that enables the ad hoc
19 networking capability.

20
21 **27.** (original) The computer-readable medium of claim 16, wherein the
22 first device has 802.11b communication capability that enables the ad hoc
23 networking capability.

1 28. (currently amended) A device comprising:

2 a communications component enabling ad hoc networking capability;

3 a memory storing a computer program to establish an instantaneous
4 network with a second device using the ad hoc networking capability, to
5 automatically send first information in a nodal tree structure from a first tree data
6 structure stored in the memory where the second device has a receiving
7 configuration, and to automatically receive second information in a nodal tree
8 structure from the second device and store the second information in the first tree
9 data structure where the device has a receiving configuration; and,

10 a processor executing the computer program from the memory, the first
11 information including at least information received by the device from one or
12 more third devices other than the device and the second device during at least one
13 instantaneous network previously established between the device and the one or
14 more third devices;

15 wherein the device is not part of the at least one instantaneous network
16 previously established between the device and the one or more third devices when
17 the first information is sent from the first tree data structure stored in the memory
18 or when the second information is received from the second device; and

19 wherein the first tree data structure has multiple nodes such that a number
20 of levels in the first tree data structure between two nodes of the multiple nodes
21 indicates a degree of separation between two devices that are represented by the
22 two nodes.

1 29. (previously presented) The device of claim 28, wherein the
2 instantaneous network established with the second device is a piconet.

3
4 30. (original) The device of claim 28, wherein the device is a mobile
5 device selected from a group of mobile devices comprising: a wireless phone and
6 a personal-digital assistant (PDA) device.

7
8 31. (currently amended) The device of claim 28, wherein ~~each of the first~~
9 ~~information and the second information is divided into nodes, each node of the~~
10 nodal tree structures of the first information and the second information contains
11 ~~containing~~ an associated decay value, such that information contained in the node
12 decays over time and the node is deleted upon expiration.

13
14 32. (original) The device of claim 28, further comprising one or more of:
15 an input component, and a display component.

1 33. (currently amended) A method for communicating information from a
2 first device to a second mobile device via an intermediary mobile device, each of
3 the first device, the second mobile device and the intermediary mobile device
4 having ad hoc networking capability, the method comprising:

5 providing a first ad hoc network including at least the first device and the
6 intermediary mobile device;

7 automatically transmitting information in a nodal tree structure from the
8 first device to the intermediary mobile device through the first ad hoc network
9 through which the information is provided from the first device to the intermediary
10 mobile device;

11 storing the information in an intermediary tree data structure at the
12 intermediary mobile device;

13 permitting the first ad hoc network to dissipate at least with respect to the
14 intermediary mobile device;

15 establishing, after the permitting, a second ad hoc network including at
16 least the intermediary mobile device and the second mobile device; and,

17 automatically sending the information from the intermediary tree data
18 structure at the intermediary mobile device to the second mobile device;

19 wherein the intermediary tree data structure has multiple nodes such that a
20 number of levels in the intermediary tree data structure between two nodes of the
21 multiple nodes indicates a degree of separation between two devices that are
22 represented by the two nodes.

1 **34.** (currently amended) A mobile device that is capable of acting as an
2 intermediary and that is configured to enable it to perform actions comprising:

3 establishing a first instantaneous network including at least the
4 intermediary mobile device and a second mobile device;

5 automatically receiving information in a nodal tree structure at the
6 intermediary mobile device from the second mobile device via the first
7 instantaneous network;

8 storing the information in an intermediary tree data structure at the
9 intermediary mobile device;

10 terminating the first instantaneous network at least with respect to the
11 second mobile device;

12 establishing, after the terminating action, a second instantaneous network
13 including at least the intermediary mobile device and a third mobile device; and,

14 automatically sending, after the establishing a second instantaneous
15 network action, the information in a nodal tree structure from the intermediary tree
16 data structure at the intermediary mobile device to the third mobile device via the
17 second instantaneous network;

18 wherein the intermediary tree data structure has multiple nodes such that a
19 number of levels in the intermediary tree data structure between two nodes of the
20 multiple nodes indicates a degree of separation between two devices that are
21 represented by the two nodes.

1 **35.** (currently amended) The mobile device of claim 34, wherein the
2 information in the nodal tree structure includes multiple nodes representing
3 multiple devices, including an intermediary node representing the intermediary
4 mobile device and a second node representing the second mobile device; and
5 wherein the intermediary node comprises a top-most node of the intermediary tree
6 data structure and the second node is directly connected to the intermediary node
7 to indicate that the intermediary mobile device directly communicated with the
8 second mobile device.

9
10 **36.** (canceled)

11
12 **37.** (previously presented) The mobile device of claim 34, wherein the
13 information comprises identity information of the second mobile device.

14
15 **38.** (previously presented) The mobile device of claim 34, wherein the
16 information is directed to at least one node comprising the second mobile device,
17 the information including an associated decay value such that the information
18 about the second mobile device decays over time and the information about the
19 second mobile device may be deleted upon expiration of the associated decay
20 value.

21
22 **39.** (previously presented) The mobile device of claim 34, wherein the
23 information comprises one or more of: advertising information and dating
24 information.
25

1
2 **40.** (currently amended) The computer-readable medium of claim ~~20~~ 16,
3 wherein a number of levels down a given node is from a top-most node of the first
4 tree data structure indicates how many degrees of separation there are between a
5 given device represented by the given node and the first device.

6
7 **41.** (canceled)

8
9 **42.** (previously presented) The device of claim 31, wherein a number of
10 levels down from a top-most node of the first tree data structure that a particular
11 node representing a particular device of the one or more third devices is indicates
12 how many degrees of separation there are between the particular device and the
13 device.

14
15 **43.** (currently amended) The method of claim 33, further comprising:
16 storing the information in a second tree data structure at the second mobile
17 device;

18 wherein the second tree data structure has multiple nodes such that a
19 number of levels in the second tree data structure between two nodes of the
20 multiple nodes indicates a degree of separation between two devices that are
21 represented by the two nodes~~wherein the information includes multiple nodes in a~~
22 ~~tree data structure; and wherein differences between levels of the multiple nodes~~
23 ~~indicate degrees of separation between devices represented by the multiple nodes.~~

1 **44.** (previously presented) The mobile device of claim 34, wherein a top-
2 most node of the intermediary tree data structure represents the intermediary
3 mobile device; and wherein a number of levels that a particular node representing
4 a particular device is down from the top-most node indicates how many degrees of
5 separation there are between the intermediary mobile device and the particular
6 device.